

---

**JELENA SEDLAR**, University of Split, Croatia

*Two types of indices and their extremal trees*

We introduce the ordering of tree graphs so that the star  $S_n$  is minimal and the path  $P_n$  is maximal graph. Topological indices are of Wiener or anti-Wiener type, if they are increasing or decreasing functions with respect to the introduced ordering. If an index is of Wiener type  $S_n$  is minimal and  $P_n$  is maximal tree, for anti-Wiener type the reverse holds. We introduce a simple criterion to establish if a topological index is of Wiener or anti-Wiener type and apply our result to several generalizations of Wiener index.